From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

CHAS.HUDE A/S H.C. Andersens Boulevard 33 DK-1780 Copenhagen V DANEMARK PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

1419

Date of mailing (day/month/year)

15.10.2003

Applicant's or agent's file reference

76888 HDNe

PCT/DK03/00013

International filing date (day/month/year)

10.01.2003

nn 76888

Priority date (day/month/year)

IMPORTANT NOTIFICATION

11.01.2002

Applicant

LM GLASFIBER AS

International application No.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:



European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016 Authorized Officer

Micheli, M

Tel. +31 70 340-3606



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference 76888 HDNe | | | ent's file reference | FOR FURTHER | See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) | | | | |
|---|--|--------|-------------------------------|-----------------------------|---|--------------------|---|--|--|
| International application No. PCT/DK03/00013 | | | | International filing dat | e (day/mont | | Priority date (day/month/year) 11.01.2002 | | |
| Interna B290 | | | ent Classification (IPC) or b | oth national classification | n and IPC | | | | |
| Applica LM G | | SFIBE | ER A/S | | | | | | |
| 1. | This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. | | | | | | | | |
| 2. | This REPORT consists of a total of 5 sheets, including this cover sheet. | | | | | | | | |
| . [| This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). | | | | | | | | |
| ٦ | These annexes consist of a total of sheets. | | | | | | | | |
| 3. 1 | This | report | contains indications rel | ating to the following | items: | | | | |
| 1 | | ⊠ | Basis of the opinion | · · | | | | | |
| 1 | • | | Priority | | | | | | |
| | | | • | ninion with regard to | novelty inv | rontiva etan | and industrial applicability | | |
| - | | | Lack of unity of invention | | noverty, in | entive step | and industrial applicability | | |
| | | ⊠ | | nder Rule 66.2(a)(ii) w | rith regard tatement | to novelty, | inventive step or industrial applicability; | | |
| V | V۱ | | Certain documents cite | d | | | | | |
| | | | Certain defects in the ir | nternational application | n | | | | |
| ٧ | VIII | | Certain observations or | n the international app | lication | | | | |
| Date of | Date of submission of the demand | | | | Date of co | ompletion of | this report | | |
| 31.07. | 31.07.2003 | | | | | 15.10.2003 | | | |
| | Name and mailing address of the international | | | | | Authorized Officer | | | |
| preliminary examining authority: European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016 | | | Van Wa | llene, A • No. +31 70 | 340-3611 | | | | |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DK03/00013

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

| | Des | scription, Pages | | | | | | |
|----|--------------|---|---|---|----------------------|--|--|--|
| | 1-1 | 0 | as originally filed | | | | | |
| | Cla | ims, Numbers | | | • | | | |
| | | iiiis, ivailibeis | | | | | | |
| | 1-9 | | as originally filed | | | | | |
| | Dra | wings, Figures | | | | | | |
| | 1-10 | 0 | as published | | | | | |
| 2. | Witl lanç | to this Authority in the r this item. | | | | | | |
| | The | ese elements were av | ilable or furnished to this Authorit | y in the following language: | , which is: | | | |
| | | the language of a tra | slation furnished for the purpose | s of the international search (u | nder Rule 23.1(b)). | | | |
| | | the language of pub | cation of the international applica | tion (under Rule 48.3(b)). | | | | |
| | | the language of a tra Rule 55.2 and/or 55. | islation furnished for the purpose). | s of international preliminary e | xamination (under | | | |
| 3. | Witl inte | n regard to any nucle rnational preliminary | tide and/or amino acid sequen xamination was carried out on the | ce disclosed in the international basis of the sequence listing: | al application, the | | | |
| | | contained in the inte | national application in written form | า. | | | | |
| | | filed together with th | international application in comp | uter readable form. | | | | |
| | | furnished subsequer | ly to this Authority in written form | • | | | | |
| | | furnished subsequently to this Authority in computer readable form. | | | | | | |
| | | The statement that t in the international a | e subsequently furnished written plication as filed has been furnisl | sequence listing does not go b ned. | eyond the disclosure | | | |
| | | The statement that t listing has been furn | e information recorded in comput hed. | er readable form is identical to | the written sequence | | | |
| 4. | The | amendments have r | sulted in the cancellation of: | | | | | |
| | | the description, | pages: | | | | | |
| | | the claims, | Nos.: | | | | | |
| | | the drawings, | sheets: | | | | | |
| | | | | | | | | |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DK03/00013

| This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)). | | | | | |
|---|--|--|--|--|--|
| (Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.) | | | | | |

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims
No: Claims

Inventive step (IS)

Yes: Claims
1-9
No: Claims

Industrial applicability (IA)

Yes: Claims
1-9
No: Claims

2. Citations and explanations

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Reference is made to the following document:

D1: US-A-4915590

Novelty

None of the prior art documents show the features of the embedding element, its method of manufacture nor their use in the manufacture of wind turbaine rotors as defined in the independent claims 1, 5 and 8 respectively. Therefore the subject matter of the claims is novel (Rule 64 (1)-(3) PCT).

Inventive step

Prior art:

Fibre reinforced composite elements with incorporated bolts or bolt fixtures as shown in document D1

Problem:

When manufacturing fibre reinforced composites, problems occur to position bolts or bolt fixtures relative to each other with sufficient positional accuracy. Another problem is the insufficient bonding between the bolt or bolt fixture and the composite part.

Solution:

Producing embedding elements with fastening means with convex and concave faces in accordance with the characterising part of claim 1. A multitude of such elements, can be assembled as claimed in claim 8 and bonded together in fibre reinforced composite materials. Pre fabrication of such parts as defined in claim 5 allows good bonding of the bolt or bolt fixtures as well as easy and accurate positioning.

None of the prior art documents discuss nor solve the problem of relative positioning accuracy of connecting element inserts in composite parts. Therefore the method, the product as well as its use are novel and inventive (Art. 33(3) and Rule 65 (1)(2) PCT).

Industrial applicability

The subject matter of the claims is industrial applicable in the field of composite

INTERNATIONAL PRELIMINARY

International application No. PCT/DK03/00013

EXAMINATION REPORT - SEPARATE SHEET

moulding techniques and thus fulfilling the requirements of Article 33(4) PCT.